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| EXAMINER |
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ZHAO, DAQUAN

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| ART UNIT | PAPER NUMBER |
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2621

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ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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| | | | |
|------------------------------|--------------------------------------|------------------------------------|--|
| Office Action Summary | Application No. 10/714,434 | Applicant(s) YOON ET AL. | |
| | Examiner DAQUAN ZHAO | Art Unit 2621 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 November 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>1/31/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-30 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1,4,5,8,9,11,13-19,21-23,25,30 and 33 of copending Application No. 10/713,580, hereinafter #580. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant application is broader in every aspect than the claim of #580 and is thereof an obvious variant thereof.

For claim 1, #580 teaches a method for reproducing contents information in an interactive optical disc device, comprising the steps of:

a) synchronizing and reproducing data read from an interactive optical disc and contents information sent and downloaded from a contents provider server connected via the Internet (e.g. para. 41 and claim 1 of #580);

b) if the sending of said contents information from said contents provider server is suspended or delayed, generating a command for requesting re-sending of specific contents information, based upon information about a size of said downloaded contents information, and sending the generated command to said contents provider server (claims 1 and 8 of #580); and

c) reproducing said specific contents information re-sent from said contents provider server in response to said command together with data read from said interactive optical disc while re-synchronizing it with said data read from said interactive optical disc (claims 1 and 8 of #580).

For claim 2, #580 teaches contents information size information is information about an offset of contents information downloaded into a buffer memory of said interactive optical disc device (e.g. claim 8 of #580).

For claim 3, #580 teaches specific contents information whose re-sending is requested is contents information subsequent to said offset of said contents information downloaded into said buffer memory (e.g. claim 25 of #580).

For claim 4, #580 teaches command for requesting the re-sending of said specific contents information includes a parameter, said parameter being the size of said downloaded contents information (e.g. claim 30 of #580).

For claim 5, #580 teaches step c) includes the steps of: c-1) receiving a command for notification of the re-sending of said specific contents information from said contents provider server; and c-2) after said re-sending notification command is received, reproducing said specific contents information re-sent from said contents provider server together with said data read from said interactive optical disc while re-synchronizing it with said data read from said interactive optical disc (e.g. claim 22 of #580).

For claim 6, #580 teaches a method for reproducing contents information in an interactive optical disc device, comprising the steps of:

a) synchronizing and reproducing data read from an interactive optical disc and contents information sent and downloaded from a contents provider server connected via the Internet (e.g. claim 1 of #580);

b) if the sending of said contents information from said contents provider server is suspended or delayed, pausing a data reproducing operation of said interactive optical disc for a predetermined period of time and determining whether there is contents information received over said Internet (claims 8 and 9 of #580); and

c) if there is contents information received over said Internet, re-synchronizing and reproducing the received contents information and data read from said interactive optical disc (e.g. claim 1 of #580).

For claim 7, #580 teaches step b) includes the steps of:

b-1) if the sending of said contents information from said contents provider server is suspended or delayed, determining whether a size of contents information

downloaded into a buffer memory of said interactive optical disc device and not reproduced yet is below a predetermined reference value (e.g. claim 8 of #580).

b-2) automatically pausing the data reproducing operation of said interactive optical disc if the size of said contents information downloaded into said buffer memory and not reproduced yet is below said predetermined reference value (e.g. claim 8 of Lamkin et al); and

b-3) determining whether there is contents information received over said Internet (e.g. claims 8 and 9 of #580).

For claim 8, #580 teaches step c) includes the step of, if a size of contents information received over said Internet, downloaded into said buffer memory and not reproduced yet becomes greater than or equal to said predetermined reference value, automatically re-synchronizing and reproducing the received contents information and said data read from said interactive optical disc (e.g. claims 8 and 11 of #580).

For claim 9, #580 teaches step c) includes the step of resuming the paused data reproducing operation of said interactive optical disc if there is no contents information received over said Internet even after said predetermined time period has elapsed (e.g. claims 8 and 11 of #580).

For claim 10, #580 teaches wherein the resumed data reproducing operation of said interactive optical disc is performed to reproduce only said data read from said interactive optical disc (e.g. claims 8 and 11 of #580).

For claim 11, #580 teaches a method for reproducing contents information in an interactive optical disc device, comprising the steps of: a) synchronizing and

reproducing data read from an interactive optical disc and contents information sent and downloaded from a contents provider server connected via the Internet; b) if the sending of said contents information from said contents provider server is suspended or delayed, generating a command for requesting re-sending of specific contents information, based upon a counted contents information synchronization value, and sending the generated command to said contents provider server; and c) reproducing said specific contents information re-sent from said contents provider server in response to said command together with data read from said interactive optical disc while re-synchronizing it with said data read from said interactive optical disc (e.g. claim 17 of #580).

For claim 12, #580 teaches counted contents information synchronization value is a value obtained by counting the number of synchronizations between said data read from said interactive optical disc and said contents information downloaded from said contents provider server (e.g. claims 18 and 19 of #580).

For claim 13, #580 teaches b) includes the steps of: b-1) checking said counted contents information synchronization value if the sending of said contents information from said contents provider server is suspended or delayed; b-2) calculating a re-synchronizable contents information synchronization value based upon said counted contents information synchronization value; and b-3) generating a command for requesting re-sending of specific contents information corresponding to the calculated synchronization value and sending the generated command to said contents provider server (e.g. claim 9 of #580).

For claim 14, #580 teaches said command for requesting the re-sending of said specific contents information includes a parameter, said parameter being said re-synchronizable contents information synchronization value (e.g. claims 13, 14 and 15 of #580).

For claim 15, #580 teaches said re-synchronizable contents information synchronization value is calculated with reference to a bandwidth of a current network bit rate (e.g. see claim 4 of #580).

For claim 16, #580 teaches step c) includes the steps of: c-1) receiving a command for notification of the re-sending of said specific contents information from said contents provider server; and c-2) after said re-sending notification command is received, reproducing said specific contents information re-sent from said contents provider server together with said data read from said interactive optical disc while re-synchronizing it with said data read from said interactive optical disc (e.g. claim 11 of #580).

For claim 17, #580 teaches contents information received before said command for notification of the re-sending of said specific contents information is received from said contents provider server is discarded (e.g. claims 22 and 30 of #580).

For claim 18, #580 teaches a method for reproducing contents information in an interactive optical disc device, comprising the steps of: a) synchronizing and reproducing data read from an interactive optical disc and contents information sent and downloaded from a contents provider server connected via the Internet; b) if the sending of said contents information from said contents provider server is suspended or

delayed, generating a command for requesting re-sending of specific contents information, based upon offset information of said data read from said interactive optical disc, and sending the generated command to said contents provider server; and c) after a predetermined period of time has elapsed, reproducing said specific contents information re-sent from said contents provider server in response to said command together with data read from said interactive optical disc while re-synchronizing it with said data read from said interactive optical disc (e.g. claims 17 and 22 of #580).

For claim 19, #580 teaches data offset information is playback time information of data read from said interactive optical disc and being currently reproduced in a state of not being synchronized with said downloaded contents information (e.g. claims 22 and 30 of #580).

For claim 20, #580 teaches said command for requesting the re-sending of said specific contents information includes a parameter, said parameter being said offset information (e.g. claim 21 of #580).

For claim 21, #580 teaches contents information received until said predetermined time period elapses is discarded (e.g. claims 22 and 30 of #580).

For claim 22, #580 teaches step c) includes the steps of: c-1) receiving a command for notification of the re-sending of said specific contents information from said contents provider server; c-2) reproducing only said data read from said interactive optical disc for said predetermined time period after said re-sending notification command is received; and c-3) after said predetermined time period has elapsed, reproducing said specific contents information re-sent from said contents provider

server together with said data read from said interactive optical disc while re-synchronizing it with said data read from said interactive optical disc (e.g. claim 22 of #580).

For claims 23, 24, 25, 26 and 28, #580 teaches contents information sent from said contents provider server is audio data, and said data read from said interactive optical disc includes video data (e.g. claim 23 of #580).

For claim 27, #580 teaches a method for providing contents information in a contents provider server, comprising the steps of: a) sequentially sending contents information whose sending is requested by an interactive optical disc device connected via the Internet; b) if the sending of said requested contents information is suspended or delayed, receiving a command, while including a parameter which is information regarding specific contents information, for requesting re-sending of said specific contents information, from said interactive optical disc device; and c) re-sending said specific contents information to said interactive optical disc device in response to said command (e.g. claims 1 and 5 of #580).

For claim 29, #580 teaches information regarding said specific contents information is any one of information about a size of contents information downloaded by said interactive optical disc device, a synchronization value of contents information to be reproduced re-synchronously with data read from an interactive optical disc, or an offset of data read from said interactive optical disc and to be reproduced while being re-synchronized with said specific contents information requested to be re-sent (e.g. claims 14, 15 and 33 of #580).

For claim 30, #580 teaches step c) includes the steps of: c-1) seeking a position of data corresponding to said information regarding said specific contents information; c-2) sending a command for notification of the re-sending of said specific contents information to said interactive optical disc device; and c-3) reading said specific contents information at said position and re-sending it to said interactive optical disc device (e.g. claim 16 of #580).

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-30 rejected under 35 U.S.C. 102(e) as being anticipated by Lamkin et al (US 2005/0,251,749 A1).

For claim 1, Lamkin et al teach A method for reproducing contents information in an interactive optical disc device, comprising the steps of:

a) synchronizing and reproducing data read from an interactive optical disc and contents information sent and downloaded from a contents provider server connected via the Internet (e.g. para. 41 and claim 1 of Lamkin et al);

b) if the sending of said contents information from said contents provider server is suspended or delayed, generating a command for requesting re-sending of specific contents information, based upon information about a size of said downloaded contents information, and sending the generated command to said contents provider server (claims 1 and 8 of Lamkin et al); and

c) reproducing said specific contents information re-sent from said contents provider server in response to said command together with data read from said interactive optical disc while re-synchronizing it with said data read from said interactive optical disc (claims 1 and 8 of Lamkin et al).

For claim 2, Lamkin et al teach contents information size information is information about an offset of contents information downloaded into a buffer memory of said interactive optical disc device (e.g. claim 8 of Lamkin et al).

For claim 3, Lamkin et al teach specific contents information whose re-sending is requested is contents information subsequent to said offset of said contents information downloaded into said buffer memory (e.g. claim 25 of Lamkin et al).

For claim 4, Lamkin et al teach command for requesting the re-sending of said specific contents information includes a parameter, said parameter being the size of said downloaded contents information (e.g. claim 30 of Lamkin et al).

For claim 5, Lamkin et al teach step c) includes the steps of: c-1) receiving a command for notification of the re-sending of said specific contents information from said contents provider server; and c-2) after said re-sending notification command is received, reproducing said specific contents information re-sent from said contents provider server together with said data read from said interactive optical disc while re-synchronizing it with said data read from said interactive optical disc (e.g. claim 22 of Lamkin et al).

For claim 6, Lamkin et al teach a method for reproducing contents information in an interactive optical disc device, comprising the steps of:

a) synchronizing and reproducing data read from an interactive optical disc and contents information sent and downloaded from a contents provider server connected via the Internet (e.g. claim 1 of Lamkin et al);

b) if the sending of said contents information from said contents provider server is suspended or delayed, pausing a data reproducing operation of said interactive optical disc for a predetermined period of time and determining whether there is contents information received over said Internet (claims 8 and 9 of Lamkin et al); and

c) if there is contents information received over said Internet, re-synchronizing and reproducing the received contents information and data read from said interactive optical disc (e.g. claim 1 of Lamkin et al).

For claim 7, Lamkin et al teach step b) includes the steps of:

b-1) if the sending of said contents information from said contents provider server is suspended or delayed, determining whether a size of contents information

downloaded into a buffer memory of said interactive optical disc device and not reproduced yet is below a predetermined reference value (e.g. claim 8 of Lamkin et al).

b-2) automatically pausing the data reproducing operation of said interactive optical disc if the size of said contents information downloaded into said buffer memory and not reproduced yet is below said predetermined reference value (e.g. claim 8 of Lamkin et al); and

b-3) determining whether there is contents information received over said Internet (e.g. claims 8 and 9 of Lamkin et al).

For claim 8, Lamkin et al teach step c) includes the step of, if a size of contents information received over said Internet, downloaded into said buffer memory and not reproduced yet becomes greater than or equal to said predetermined reference value, automatically re-synchronizing and reproducing the received contents information and said data read from said interactive optical disc (e.g. claims 8 and 11 of lamkin et al).

For claim 9, Lamkin et al teach step c) includes the step of resuming the paused data reproducing operation of said interactive optical disc if there is no contents information received over said Internet even after said predetermined time period has elapsed (e.g. claims 8 and 11 of Lamkin et al).

For claim 10, Lamkin et al teach wherein the resumed data reproducing operation of said interactive optical disc is performed to reproduce only said data read from said interactive optical disc (e.g. claims 8 and 11 of Lamkin et al).

For claim 11, Lamkin et al teach a method for reproducing contents information in an interactive optical disc device, comprising the steps of: a) synchronizing and

reproducing data read from an interactive optical disc and contents information sent and downloaded from a contents provider server connected via the Internet; b) if the sending of said contents information from said contents provider server is suspended or delayed, generating a command for requesting re-sending of specific contents information, based upon a counted contents information synchronization value, and sending the generated command to said contents provider server; and c) reproducing said specific contents information re-sent from said contents provider server in response to said command together with data read from said interactive optical disc while re-synchronizing it with said data read from said interactive optical disc (e.g. claim 17 of lamkin et al).

For claim 12, Lamkin et al teach counted contents information synchronization value is a value obtained by counting the number of synchronizations between said data read from said interactive optical disc and said contents information downloaded from said contents provider server (e.g. claims 18 and 19 of Lamkin et al).

For claim 13, Lamkin et al teach b) includes the steps of: b-1) checking said counted contents information synchronization value if the sending of said contents information from said contents provider server is suspended or delayed; b-2) calculating a re-synchronizable contents information synchronization value based upon said counted contents information synchronization value; and b-3) generating a command for requesting re-sending of specific contents information corresponding to the calculated synchronization value and sending the generated command to said contents provider server (e.g. claim 9 of Lamkin et al).

For claim 14, Lamkin et al teach said command for requesting the re-sending of said specific contents information includes a parameter, said parameter being said re-synchronizable contents information synchronization value (e.g. claims 13, 14 and 15 of Lamkin).

For claim 15, Lamkin et al teach said re-synchronizable contents information synchronization value is calculated with reference to a bandwidth of a current network bit rate (e.g. see claim 4 of Lamkin).

For claim 16, Lamkin et al teach step c) includes the steps of: c-1) receiving a command for notification of the re-sending of said specific contents information from said contents provider server; and c-2) after said re-sending notification command is received, reproducing said specific contents information re-sent from said contents provider server together with said data read from said interactive optical disc while re-synchronizing it with said data read from said interactive optical disc (e.g. claim 11 of Lamkin et al).

For claim 17, Lamkin et al teach contents information received before said command for notification of the re-sending of said specific contents information is received from said contents provider server is discarded (e.g. claims 22 and 30 of Lamkin et al).

For claim 18, Lamkin et al teach a method for reproducing contents information in an interactive optical disc device, comprising the steps of: a) synchronizing and reproducing data read from an interactive optical disc and contents information sent and downloaded from a contents provider server connected via the Internet; b) if the sending

of said contents information from said contents provider server is suspended or delayed, generating a command for requesting re-sending of specific contents information, based upon offset information of said data read from said interactive optical disc, and sending the generated command to said contents provider server; and c) after a predetermined period of time has elapsed, reproducing said specific contents information re-sent from said contents provider server in response to said command together with data read from said interactive optical disc while re-synchronizing it with said data read from said interactive optical disc (e.g. claims 17 and 22 of Lamkin et al).

For claim 19, Lamkin et al teach data offset information is playback time information of data read from said interactive optical disc and being currently reproduced in a state of not being synchronized with said downloaded contents information (e.g. claims 22 and 30 of Lamkin et al).

For claim 20, Lamkin et al teach said command for requesting the re-sending of said specific contents information includes a parameter, said parameter being said offset information (e.g. claim 21 of Lamkin et al).

For claim 21, Lamkin et al teach contents information received until said predetermined time period elapses is discarded (e.g. claims 22 and 30 of Lamkin et al).

For claim 22, Lamkin et al teach step c) includes the steps of: c-1) receiving a command for notification of the re-sending of said specific contents information from said contents provider server; c-2) reproducing only said data read from said interactive optical disc for said predetermined time period after said re-sending notification command is received; and c-3) after said predetermined time period has elapsed,

reproducing said specific contents information re-sent from said contents provider server together with said data read from said interactive optical disc while re-synchronizing it with said data read from said interactive optical disc (e.g. claim 22 of Lamkin et al).

For claims 23, 24, 25, 26 and 28, Lamkin et al teach contents information sent from said contents provider server is audio data, and said data read from said interactive optical disc includes video data (e.g. claim 23 of Lamkin et al).

For claim 27, Lamkin et al teach a method for providing contents information in a contents provider server, comprising the steps of: a) sequentially sending contents information whose sending is requested by an interactive optical disc device connected via the Internet; b) if the sending of said requested contents information is suspended or delayed, receiving a command, while including a parameter which is information regarding specific contents information, for requesting re-sending of said specific contents information, from said interactive optical disc device; and c) re-sending said specific contents information to said interactive optical disc device in response to said command (e.g. claims 1 and 5 of Lamkin et al).

For claim 29, Lamkin et al teach information regarding said specific contents information is any one of information about a size of contents information downloaded by said interactive optical disc device, a synchronization value of contents information to be reproduced re-synchronously with data read from an interactive optical disc, or an offset of data read from said interactive optical disc and to be reproduced while being

re-synchronized with said specific contents information requested to be re-sent (e.g. claims 14, 15 and 33 of Lamkin et al).

For claim 30, Lamkin et al teach step c) includes the steps of: c-1) seeking a position of data corresponding to said information regarding said specific contents information; c-2) sending a command for notification of the re-sending of said specific contents information to said interactive optical disc device; and c-3) reading said specific contents information at said position and re-sending it to said interactive optical disc device (e.g. claim 16 of Lamkin et al).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kanazawa et al (US 6,580,870 B1); Chung et al (US 2003/0049017 A1).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daquan Zhao whose telephone number is (571) 270-1119. The examiner can normally be reached on M-Fri. 7:30 -5, alt Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tran Thai Q, can be reached on (571)272-7382. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Daquan Zhao/
Examiner, Art Unit 2621
Daquan Zhao

/Thai Tran/
Supervisory Patent Examiner, Art Unit 2621